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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/830,684	04/30/2001	Masato Takahashi	206379US2PCT	9633
22850	7590 04/26/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			KIM, PETER B	
1940 DUKE ALEXANDI	STREET RIA, VA 22314		ART UNIT PAPER NUMBER	
	,		2851	
			DATE MAILED: 04/26/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/830,684	TAKAHASHI, MASATO	)
Office Action Summary	Examiner	Art Unit	
	Peter B. Kim	2851	
The MAILING DATE of this communication appearing for Reply	pears on the cover sheet with the	correspondence addres	s
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be t ly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS froi e, cause the application to become ABANDON	imely filed  ays will be considered timely.  the mailing date of this community  ED (35 U.S.C. § 133).	nication.
Status			
1) Responsive to communication(s) filed on 10 M	March 2004.		
<u> </u>	s action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under	•		rits is
Disposition of Claims			
4)	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) according a continuous continuous and according to a continuous conti	cepted or b) objected to by the		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct			.121(d).
11) The oath or declaration is objected to by the E	xaminer. Note the attached Offic	e Action or form PTO-1	52.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:      1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list.	ts have been received. ts have been received in Applica prity documents have been receiv nu (PCT Rule 17.2(a)).	ition No ved in this National Stag	ge
	•		
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summai		
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ul>	Paper No(s)/Mail I  5) Notice of Informal  6) Other:	Date Patent Application (PTO-152	2)
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### **DETAILED ACTION**

Applicant's arguments filed on Mar. 10, 2004 have been fully considered.

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 28, 29, 31-48, and 51-63 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding Claims 28, 46, and 58, the damping member being different from a base that supports the first transmitting member is not disclosed.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 46-52 and 55-63 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding Claim 46 and 58, applicant states that a counter stage refers to the stators 212A and 212B (arguments filed Aug. 25, 2003). Claims 46 and 58 recite that the counter stage is coupled to the second member of the driver. As far as the examiner can ascertain, the second

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member is the stator. Thus, the stator seems to be both the counter stage and the second member of the driver, and it is not clear how the stator is claimed as two separate structures.

The remaining claims, not specifically mentioned, are rejected for incorporating the defects from the base claim by dependency.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 28, 29, 35, 42-54, and 57-63 are rejected under 35 U.S.C. 102(e) as being anticipated by Hazelton et al. (Hazelton) (6,252,234).

Hazelton discloses an exposure apparatus with a stage unit comprising a sample stage (26) that holds a sample (12), a stage driving mechanism (30), a first transmitting member (62) to which at least one part of the stage driving mechanism is connected and a reaction force caused by driving the sample stage is transmitted and a first damping member on the first transmitting member arranged at a position where a maximum strain of the first transmitting member is caused (col. 4, lines 19-30, the ground is the damping means located where the strain on the transmitting member is at a maximum). Hazelton discloses the stage driving mechanism comprising a stator arranged on the first transmitting member and a mover that is driven together with the sample stage by electro-magnetic interaction between the stator and the mover (Fig. 2,

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col. 3, line 54 – col. 4, line 49). Hazelton discloses a stage base (58) that movably supports the sample stage and is supported independently of the first transmitting member. Hazelton discloses a projection optical system (24) between the mask and the substrate, and a holder (42) that is independent of the first transmitting member and holds the projection optical system. Hazelton discloses a controller (22) that synchronously moves the mask and the substrate.

Hazelton discloses an exposure apparatus comprising a driver having a first member (56) couple to the stage (26) and having a second member (50) configured to drive the stage, a stage base (58) that movable supports the stage, a counter stage that moves in a direction opposite to the stage (col. 4, lines 32-49), a first supporting frame (62) that is arranged independently of the stage base and movably supports the counter stage and a damping member that is arranged on the first supporting frame and damps a vibration of the first supporting frame wherein the damping member is arranged at a position where a maximum strain of the first supporting frame is caused (col. 4, lines 19-30, the ground is the damping means located where the strain on the transmitting member is at a maximum). Hazelton discloses a projection optical system (24) and a second supporting frame (42) arranged independently of the first supporting frame and supporting the projection optical system.

### Response to Arguments

As far as the examiner can ascertain, the added feature to the claims is not disclosed.

Therefore, the previous art rejection is maintained.

Applicant argues that a person skilled in the art understands what the counter stage is, and applicant states that the counter stage may be made up of the stators and may include also air

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bearing and other elements. However, applicant's explanation still does not clear up the fact that if the second member is the stator, it is still not clear how the counter stage is coupled to the second member which is a part of the counter stage. It is not clear how the counter stage which includes the second member is coupled to the second member. The claim language clearly implies that the second member and the counter stage are two distinct structures.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Kim whose telephone number is (571) 272-2120. The examiner can normally be reached on Monday-Thursday from 8:30 AM to 6:00 PM. The examiner can also be reached on alternate Fridays during the same hours.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on 571-272-2112. The fax phone numbers for the organization where this application or proceeding is assigned is 703 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571 –272-2800.

Peter B. Kim
Patent Examiner

April 10, 2004